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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF AGRICULTURAL CHEMISTRY AND ENGINEERING

1939-40 ANNUAL

NAVAL STORES REPORT

on

Production, Distribution, Consumption and Stocks

of

TURPENTINE AND ROSIN

of the

UNITED STATES

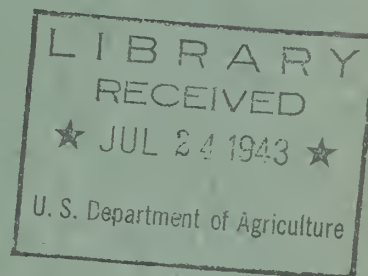
By Crop Years

Issued May 15, 1940

Compiled by

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Naval Stores Research Division



FOREWORD

This is the sixth of the series of annual reports giving production, consumption, and stocks of naval stores. The period covered by the annual reports is that of the naval stores season -- April 1-March 31. Semi-annual reports, covering the six month period, April 1 - September 30, are also issued. These reports are issued under Federal Act 278, providing for the publication of statistics relating to spirits of turpentine and rosin.

It is believed and hoped that the new form of presenting these data will facilitate comparisons with the previous year. Beginning with this report, an attempt has been made to give separately the total consumption of gum and wood naval stores.

The figures for sulphate wood rosin are given as 500-pound (gross weight) barrels and are the figures for resin acids reported or are derived from the reported production and stocks of crude liquid rosin, a mixture of fatty and resin acids.

Carryover (stocks) of turpentine and rosin is separated into gum and wood products. Stocks of wood rosin do not include so-called "B wood rosin."

The statistics reported are expressed in commercial units, for turpentine, barrels of 50 gallons, and for rosin, barrels of approximately 500 pounds gross weight. Where information was available, drums of rosin were converted to 500-pound barrels. Carryover (stocks) figures do not include turpentine or rosin producible from crude gum or crude wood turpentine on hand. A determined effort has been made to obtain reports on production and stocks at stills from each producer and on consumption and stocks from dealers and consumers. However, in but few instances are the figures given herein exact or complete.

The accuracy, completeness and promptness of issue of these reports depend chiefly upon the degree of cooperation given by consumer, producer and dealer in supplying the information from which the reports are compiled. The earlier date of issue of this report reflects the earlier receipt of reports.

Statistics on foreign production, stocks and exports have been omitted from this issue due to the lack of availability of complete and accurate data.

The increasing cooperation given the Bureau of Agricultural Chemistry and Engineering has been gratifying, and to each one the Bureau extends its thanks. The Bureau is particularly grateful for the cooperation and encouragement received from the factors of the naval stores industry. Thanks are due Mr. J. E. Lockwood for suggesting the change in form.

SUMMARY OF TURPENTINE

SUPPLY, DISTRIBUTION AND CARRYOVER (Bbls. 50 gals.)

(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

<u>1939-40</u>			<u>1938-39</u>		
<u>12 mos. (Apr.-Mar.)</u>			<u>12 mos. (Apr.-Mar.)</u>		
<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>

TABLE 1a - SUPPLY AND DISTRIBUTION

U.S. Carryover Apr. 1 ¹	314,323	272,658	41,665	218,774	174,206	44,568
Production ²	604,778	382,781	221,997	709,218	534,291	174,927
Imports ³	<u>16,492</u>	<u>16,492</u>	<u>---</u>	<u>16,571</u>	<u>16,571</u>	<u>---</u>
Available Supply	935,593	671,931	263,662	944,563	725,068	219,495
Less Carryover Mar. 31 ¹	<u>220,267</u>	<u>167,943</u>	<u>52,324</u>	<u>314,323</u>	<u>272,658</u>	<u>41,665</u>
Appar. Total Consumption	715,326	503,988	211,338	630,240	452,410	177,830
Less Exports ⁴	<u>238,438</u>	<u>189,684</u>	<u>48,754</u>	<u>210,226</u>	<u>174,909</u>	<u>35,317</u>
Appar. U.S. Consumption	476,888	314,304	162,584	420,014	277,501	142,513

TABLE 2a - CARRYOVER (Stocks)

U.S. Carryover, Apr. 1	314,323	272,658	41,665	218,774	174,206	44,568
U.S. Carryover, Mar. 31	<u>220,267</u>	<u>167,943</u>	<u>52,324</u>	<u>314,323</u>	<u>272,658</u>	<u>41,665</u>
Increase	---	---	10,659	95,549	98,452	---
Decrease	94,056	104,715	---	---	---	2,903

¹ Tables 3 and 4.

² Table 5a.

³ Table 7.

⁴ Tables 9-11.

SUMMARY OF ROSIN

SUPPLY, DISTRIBUTION AND CARRYOVER (Bbls. 500 lbs. gross)
(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

<u>1939-40</u>			<u>1938-39</u>		
<u>12 mos. (Apr.-Mar.)</u>			<u>12 mos. (Apr.-Mar.)</u>		
<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>

TABLE 1b - SUPPLY AND DISTRIBUTION

U.S. Carryover Apr. 1 ¹	1,621,970	1,399,124	222,846	999,347	765,580	233,767
Production ²	2,293,971 ⁴	1,317,795 ⁴	976,176	2,612,391 ⁴	1,832,930 ⁴	779,461
Imports ³	<u>2,398</u>	<u>2,398</u>	<u>---</u>	<u>340</u>	<u>340</u>	<u>---</u>
Available Supply	3,918,339	2,719,317	1,199,022	3,612,078	2,598,850	1,013,228
Less Carryover Mar. 31	<u>1,569,396</u>	<u>1,409,649</u>	<u>159,747</u>	<u>1,621,970</u>	<u>1,399,124</u>	<u>222,846</u>
Appar. Tot. Consumption	2,348,943	1,309,668	1,039,275	1,990,108	1,199,726	790,382
Less Exports ⁵	<u>975,880</u>	<u>588,845</u>	<u>387,035</u>	<u>821,381</u>	<u>499,206</u>	<u>322,175</u>
Appar. U.S. Consumption	1,373,063	720,823	652,240	1,168,727	700,520	468,207

TABLE 2b - CARRYOVER (Stocks)

U.S. Carryover Apr. 1	1,621,970	1,399,124	222,846	999,347	765,580	233,767
U.S. Carryover Mar. 31	<u>1,569,396</u>	<u>1,409,649</u>	<u>159,747</u>	<u>1,621,970</u>	<u>1,399,124</u>	<u>222,846</u>
Increase	---	10,525	---	622,623	633,544	---
Decrease	52,574	---	63,099	---	---	10,921

¹ Tables 3 and 4.

² Table 5b.

³ Table 8.

⁴ Includes reclaimed gum rosin.

⁵ Tables 9-11.

DETAILS AND SUMMARY OF TURPENTINE CARRYOVER (Bbls. 50 gals.)

(At close of naval stores season, on March 31)

	<u>1940</u>			<u>1939</u>		
	Mar. 31			Mar. 31		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
<u>TABLE 3a - DETAILS OF TURPENTINE CARRYOVER</u>						
<u>Production Points</u>						
Gum Stills ¹	7,778	7,778	---	16,858	16,858	---
Wood Plants ¹						
Steam Dist. ²	23,104	---	23,104	13,026	---	13,026
Sulphate	4,929	---	4,929	6,238	---	6,238
Dest. Dist.	1,093	---	1,093	652	---	652
Total	36,904	7,778	29,126	36,774	16,858	19,916
<u>Sou. Concent. Points</u>						
Savannah ³	9,822	9,822	---	37,639	37,639	---
Jacksonville ³	36,278	36,278	---	44,454	44,454	---
Pensacola ³	10,735	10,735	---	27,533	27,533	---
Other Sou. Ports	17,637	17,637	---	63,114	63,114	---
Interior Yards	<u>51,823</u>	<u>51,823</u>	<u>---</u>	<u>49,270</u>	<u>49,270</u>	<u>---</u>
Total	126,295	126,295	---	222,010	222,010	---
<u>Distrib. Points</u>						
Eastern	10,824	5,205	5,619	10,410	5,658	4,752
Central	25,181	16,488	8,693	21,991	13,224	8,767
Western	<u>4,728</u>	<u>2,720</u>	<u>2,008</u>	<u>6,130</u>	<u>3,842</u>	<u>2,288</u>
Total ⁴	40,733	24,413	16,320	38,531	22,724	15,807
<u>Industrial Plants</u> ⁵	16,335	9,457	6,878	17,008	11,066	5,942

TABLE 4a - SUMMARY OF TURPENTINE CARRYOVER

Production Points	36,904	7,778	29,126	36,774	16,858	19,916
Sou. Concent. Points	126,295	126,295	---	222,010	222,010	---
Distrib. Points	40,733	24,413	16,320	38,531	22,724	15,807
Industrial Plants	<u>16,335</u>	<u>9,457</u>	<u>6,878</u>	<u>17,008</u>	<u>11,066</u>	<u>5,942</u>
Total in U. S.	220,267	167,943	52,324	314,323	272,658	41,665
At and afloat to London	---	⁶		<u>25,050</u>		
Total U. S. and London				339,373		

¹ Compiled from reports by producers and factors.

² Does not include by-products resulting from making paler grades from FF wood rosin.

³ Official Board of Trade and Chamber of Commerce reports.

⁴ Compiled from reports of individual distributors.

⁵ Compiled from reports of individual consumers.

⁶ Not available.

DETAILS AND SUMMARY OF ROSIN CARRYOVER (Bbls. 500 lbs. gross)

(At close of naval stores season, on March 31)

	<u>1940</u>			<u>1939</u>		
	Mar. 31			Mar. 31		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
<u>TABLE 3b - DETAILS OF ROSIN CARRYOVER</u>						
<u>Production Points</u>						
Gum Still ¹	32,283	32,283	---	137,597	137,597	---
Wood Plants, ¹						
Steam Dist. ²	94,030	----	94,030	152,042	----	152,042
Sulphate	2,994	----	2,994	5,201	----	5,201
Dest. Dist.	----	----	----	----	----	----
Total	129,307	32,283	97,024	294,840	137,597	157,243
<u>Sou. Concent. Points</u>						
Savannah ³	166,509	166,509	----	281,882	281,882	----
Jacksonville ³	318,861	318,861	----	261,099	261,099	----
Pensacola ³	53,193	53,193	----	65,107	65,107	----
Other Sou. Ports	223,564	223,564	----	242,716	242,716	----
Interior Yards	432,326	432,326	----	201,685	201,685	----
Total	1,194,453	1,194,453	----	1,052,489	1,052,489	----
<u>Distrib. Points</u>						
Eastern	7,610	2,716	4,894	9,450	3,989	5,461
Central	7,047	3,674	3,373	8,696	6,081	2,615
Western	1,554	793	761	1,031	513	518
Total ⁴	16,211	7,183	9,028	19,177	10,583	8,594
<u>Industrial Plants⁵</u>	229,425	175,730	53,695	255,464	198,455	57,009

TABLE 4b - SUMMARY OF ROSIN CARRYOVER (Stocks)

Production Points	129,307	32,283	97,024	294,840	137,597	157,243
Sou. Concent. Points	1,194,453	1,194,453	----	1,052,489	1,052,489	----
Distrib. Points	16,211	7,183	9,028	19,177	10,583	8,594
Industrial Plants	229,425	175,730	53,695	255,464	198,455	57,009
Total in U. S.	1,569,396	1,409,649	159,747	1,621,970	1,399,124	222,846

¹ Compiled from reports by producers and factors.

² Does not include by-products resulting from making paler grades from FF wood rosin.

³ Official Board of Trade and Chamber of Commerce Reports.

⁴ Compiled from reports of individual distributors.

⁵ Compiled from reports of individual consumers.

DETAILS OF PRODUCTION

(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

1939-40 1938-39
12 mos. (Apr.-Mar.) 12 mos. (Apr.-Mar.)

Total Gum Wood Total Gum Wood

TABLE 5a - PRODUCTION OF TURPENTINE (Bbls. 50 gals.)

Gum	382,781	382,781	---	534,291	534,291	---
Wood, Steam Dist.	158,575	---	158,575	129,091	---	129,091
" Sulphate	56,631	---	56,631	40,467	---	40,467
" Dest. Dist.	<u>6,791</u>	<u>---</u>	<u>6,791</u>	<u>5,369</u>	<u>---</u>	<u>5,369</u>
Total	604,778	382,781	221,997	709,218	534,291	174,927

TABLE 5b - PRODUCTION OF ROSIN (Bbls. 500 lbs. gross)

Gum	1,278,527	1,278,527	---	1,792,951	1,792,951	---
Reclaimed (Gum)	39,268	39,268	---	39,979	39,979	---
Wood, Steam Dist.	949,343	---	949,343	762,913	---	762,913
" Sulphate	26,833	---	26,833	16,548	---	16,548
" Dest. Dist.	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
Total	2,293,971	1,317,795	976,176	2,612,391	1,832,930	779,461

TABLE 6 - PRODUCTION OF GUM TURPENTINE BY STATES

	<u>Barrels</u>	<u>Percentage</u>	<u>Barrels</u>	<u>Percentage</u>
North Carolina	<u>1/</u>	<u>1/</u>	<u>1/</u>	<u>1/</u>
South Carolina	8,788	2.30	14,387	2.69
Georgia	227,469	59.43	305,791	57.24
Florida	103,451	27.02	148,870	27.86
Alabama	28,697	7.50	44,730	8.38
Mississippi	11,304	2.95	16,652	3.11
Louisiana	3,072	.80	3,861	.72
Texas	<u>2/</u>	<u>2/</u>	<u>2/</u>	<u>2/</u>
Total	382,781	100.0	534,291	100.0

1/ Combined with South Carolina.

2/ Combined with Louisiana.

UNITED STATES IMPORTS OF NAVAL STORES

(By naval stores seasons beginning April 1 and ending the following March 31)

TABLE 7 - IMPORTS, SPIRITS OF TURPENTINE

<u>Shipped from:</u>	<u>1939-40</u>	<u>1938-39</u>
	(Bbls. - 50 gals.)	
Austria	0	0
Canada	0	0
France	0	4
Germany	0	0
Greece	0	0
Italy	0	0
Mexico	16,464	16,567
Netherlands	0	0
Norway	0	0
Portugal	0	0
Soviet Russia	0	0
Spain	0	0
Sweden	0	0
United Kingdom	0	0
Other Countries	<u>28</u>	<u>0</u>
Totals	16,492	16,571

TABLE 8 - IMPORTS, ROSIN

(Bbls. - 500 lbs. gross)

Austria	0	0
Canada	0	0
France	1	29
Germany	0	0
Greece	0	0
Italy	0	0
Mexico	2,372	311
Netherlands	0	0
Norway	0	0
Portugal	0	0
Soviet Russia	0	0
Spain	0	0
Sweden	0	0
United Kingdom	0	0
Other Countries	<u>25</u>	<u>0</u>
Totals	2,398	340

(Source of information - Bureau of Foreign and Domestic Commerce.)

NOTE: As Government records of imports of turpentine and rosin do not require any declaration as to whether they are gum or wood products, the available statistics in consequence show only total turpentine and total rosin imports. However, it appears probable that all imports reported above were in fact gum spirits of turpentine and gum rosin.

UNITED STATES EXPORTS OF TURPENTINE

(By naval stores seasons beginning April 1 and ending the following March 31)

TABLE 9a - TOTAL EXPORTS OF TURPENTINE

(Bbls. - 50 gal.)

<u>Destination</u>	<u>1939-40</u>	<u>1938-39</u>
United Kingdom	115,153	104,842
Germany and No. Europe	36,688	42,234
Italy and So. Europe	12,283	3,893
Argentina	4,357	3,160
Brazil	3,531	2,546
Other South America	5,165	4,161
Japan	37	723
Australia and New Zealand	20,282	16,031
Netherlands East Indies	67	28
Canada	28,416	24,223
All Other Exports	<u>10,459</u>	<u>8,385</u>
Totals	238,438	210,226

TABLE 10a - EXPORTS, GUM SPIRITS OF TURPENTINE

United Kingdom	93,265	92,284
Germany and No. Europe	34,301	33,990
Italy and So. Europe	4,116	1,136
Argentina	3,778	2,785
Brazil	2,355	1,903
Other South America	4,355	3,433
Japan	37	328
Australia and New Zealand	15,278	12,043
Netherlands East Indies	58	19
Canada	24,773	21,343
All Other Exports	<u>7,368</u>	<u>5,645</u>
Totals	189,684	174,909

TABLE 11a - EXPORTS, WOOD TURPENTINE

United Kingdom	21,888	12,558
Germany and No. Europe	4,387	8,244
Italy and So. Europe	8,167	2,757
Argentina	579	375
Brazil	1,176	643
Other South America	810	728
Japan	--	395
Australia and New Zealand	5,004	3,988
Netherlands East Indies	9	9
Canada	3,643	2,880
All Other Exports	<u>3,091</u>	<u>2,740</u>
Totals	48,754	35,317

(Source of information - Bureau of Foreign and Domestic Commerce)

UNITED STATES EXPORTS OF ROSIN

(By naval stores seasons beginning April 1 and ending the following March 31)

TABLE 9b - TOTAL EXPORTS OF ROSIN 1

(Bbls. - 500 lbs. gross)

<u>Destination</u>	<u>1939-40</u>	<u>1938-39</u>
United Kingdom	291,481	207,720
Germany and No. Europe	224,233	193,666
Italy and So. Europe	30,464	40,270
Argentina	55,302	41,800
Brazil	72,372	59,646
Other South America	42,772	32,685
Japan	43,841	58,624
Australia and New Zealand	44,486	25,814
Netherlands East Indies	33,729	42,138
Canada	61,902	48,508
All Other Exports	<u>75,298</u>	<u>70,510</u>
Totals	975,880	821,381

TABLE 10b - EXPORTS OF GUM ROSIN

United Kingdom	179,792	125,844
Germany and No. Europe	134,287	109,695
Italy and So. Europe	17,938	29,287
Argentina	32,260	25,515
Brazil	18,662	23,069
Other South America	25,061	18,924
Japan	35,476	51,027
Australia and New Zealand	34,827	16,995
Netherlands East Indies	16,068	25,355
Canada	42,676	36,127
All Other Exports	<u>51,798</u>	<u>37,368</u>
Totals	588,845	499,206

TABLE 11b - EXPORTS OF WOOD ROSIN

United Kingdom	111,689	81,876
Germany and No. Europe	89,946	83,971
Italy and So. Europe	12,526	10,983
Argentina	23,042	16,285
Brazil	53,710	36,577
Other South America	17,711	13,761
Japan	8,365	7,597
Australia and New Zealand	9,659	8,819
Netherlands East Indies	17,661	16,783
Canada	19,226	12,381
All Other Exports	<u>23,500</u>	<u>33,142</u>
Totals	387,035	322,175

, Includes product commonly referred to as "B Wood Rosin."

(Source of information - Bureau of Foreign and Domestic Commerce)

TABLE 12a - REPORTED CONSUMPTION OF TURPENTINE IN UNITED STATES (Bbls.-50 gal.)
(By naval stores seasons beginning April 1 and ending the following March 31)

	<u>1939-40</u> (Apr.-Mar.)			<u>1938-39</u> (Apr.-Mar.)		
	<u>Total</u>	<u>Gum</u> ¹	<u>Wood</u> ¹	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
Abattoirs	0			0		
Adhesives & plastics	716			526		
Asphaltic products	1			1		
Automobiles & wagons	374			354	N	N
Chemicals & pharmaceuticals	36,026			22,249	o	o
Ester gum & synthetic resins	0			9	t	t
Foundries & f'dry supplies	659			576		
Furniture	526			521	A	A
Insecticides & disinfectants	354			452	v	v
Linoleum & floor covering	147			68	a	a
Matches	0			0	i	i
Oils & greases	24			37	l	l
Paint, varnish & lacquer	53,730			51,292	a	a
Paper & paper size	0			0	b	b
Printing ink	179			489	l	l
Railroads & shipyards	5,071			3,872	e	e
Rubber	149			125		
Shoe polish & shoe mat'ls	12,505			10,711		
Soap	0			213		
Other industries	<u>801</u>			<u>1,800</u>		
Total industrial reported	111,262	59,936	51,326	93,295		
Not accounted for ²	365,626	254,368	111,258	326,719		
Apparent U. S. consumption ³	476,888	314,304	162,584	420,014		

¹ Separation of gum and wood turpentine consumption will be limited for this year to the total reported.

² Principally unreported distribution of turpentine through retailers who sell in small quantities to ultimate consumers.

³ From Table 1a, page 1.

TABLE 12b - REPORTED CONSUMPTION OF ROSIN IN UNITED STATES (Bbls.-500 lbs.)
(By naval stores seasons beginning April 1 and ending following Mar. 31)

	<u>1939-40</u> (Apr.-Mar.)			<u>1938-39</u> (Apr.-Mar.)		
	<u>Total</u>	<u>Gum</u> ¹	<u>Wood</u> ¹	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
Abattoirs	1,291			2,173		
Adhesives & plastics	17,968			11,816		
Asphaltic products	1,076			968		
Automobiles & wagons	346			328	N	N
Chemicals & pharmaceuticals	163,583			123,339	o	o
Ester gum & synth. resins	127,036			108,611	t	t
Foundries & f'dry supplies	10,852			7,950		
Furniture	10			18	A	A
Insecticides & disinfectants	5,125			3,963	v	v
Linoleum & floor covering	37,259			27,313	a	a
Matches	3,384			2,240	i	i
Oils & greases	31,076			23,767	l	l
Paint, varnish & lacquer	157,519			130,278	a	a
Paper & paper size	355,622			318,361	b	b
Printing ink	13,381			11,564	l	l
Railroads & shipyards	1,072			1,365	e	e
Rubber	4,903			3,919		
Shoe polish & shoe mat'ls	9,228			10,677		
Soap	235,014			234,927		
Other industries	<u>4,363</u>			<u>4,415</u>		
Total industrial reported	1,180,108	717,965	462,143	1,027,992		
Not accounted for ²	192,955	2,858	190,097	140,735		
Apparent U. S. consumption ³	1,373,063	720,823	652,240	1,168,727		

¹ Separation of gum and wood rosin consumption will be limited for this year to the total reported.

² Principally unreported industrial consumption of rosin and rosin for distribution through retailers who sell in small quantities to ultimate consumers.

³ From Table 1b, page 2.

TABLE 13 - WEIGHTED AVERAGE MONTHLY AND SEASON PRICES OF GUM SPIRITS OF TURPENTINE - 1921-22 to 1939-40¹
(Based upon Wednesdays and Saturdays closing Savannah Prices)²

Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
	Cents per Gallon												
1921-22	53.17	61.83	52.62	53.06	56.55	65.15	69.04	73.44	74.14	83.86	86.07	80.92	62.62
1922-23	79.50	86.07	106.54	113.07	110.61	123.31	145.94	151.25	130.71	145.87	143.29	147.53	119.82
1923-24	145.32	105.48	94.74	88.73	88.83	91.61	83.86	88.50	86.36	94.88	95.37	95.72	95.22
1924-25	91.82	83.49	77.63	77.66	82.99	82.28	81.43	79.24	77.64	86.40	87.95	86.00	81.30
1925-26	87.39	97.39	92.48	90.08	95.29	106.25	105.56	104.79	93.77	99.72	92.69	93.81	96.66
1926-27	89.86	79.67	80.14	82.07	89.31	86.00	84.75	82.69	80.85	76.07	68.00	67.38	82.62
1927-28	60.61	56.41	51.24	50.64	52.31	49.22	46.71	44.36	49.49	55.03	54.94	54.82	51.38
1928-29	52.06	47.87	50.87	49.83	47.58	46.40	48.18	54.22	55.50	56.47	53.16	52.42	50.54
1929-30	48.78	48.90	46.83	47.11	46.68	49.74	50.82	47.85	48.13	49.42	50.12	50.67	48.28
1930-31	48.42	43.51	41.33	37.56	35.32	38.26	35.60	37.03	36.14	38.11	39.97	47.81	39.34
1931-32	50.44	49.42	50.69	39.77	31.40	31.88	31.17	35.21	33.83	34.68	34.84	40.06	40.10
1932-33	39.50	39.44	38.64	35.94	37.68	41.09	40.86	39.71	37.04	39.88	39.75	39.46	38.82
1933-34	37.88	42.47	40.39	46.39	42.83	41.97	40.81	42.14	42.07	47.44	57.00	55.00	42.72
1934-35	53.66	50.81	46.44	42.82	41.83	41.19	46.59	48.00	46.46	49.59	50.53	49.71	45.64
1935-36	47.37	47.07	44.46	42.40	38.47	40.91	45.76	44.92	43.96	45.19	44.44	39.31	43.56
1936-37	37.43	36.26	35.86	36.44	38.73	37.19	36.33	38.25	41.59	43.13	41.84	39.01	37.48
1937-38	35.97	35.83	34.07	33.44	31.94	29.93	27.28	26.92	26.14	28.18	26.47	25.42	31.36
1938-39	23.18	22.69	22.56	23.24	22.53	20.92	22.81	22.32	22.31	24.78	25.56	28.42	22.61
1939-40	24.96	23.93	24.00	24.11	23.72	26.11	27.16	25.72	27.00	30.17	32.91	31.67	25.31

¹ The monthly prices were obtained by averaging the Wednesday and Saturday closing prices. The season average price was obtained by multiplying each monthly price by the combined reported receipts during that month at Savannah, Jacksonville and Pensacola and dividing the total of these figures for the season by the total receipts for that season, thereby giving the months of heavy receipts and of low receipts their proper relative values.

² Wednesdays and Fridays closing Savannah prices used for December, January and February, for 1936-37, and 1937-38. Fridays prices used for 1938-39 and 1939-40 when there was no quoted Saturday market.

Sources of data: Prices, Florida inspections and monthly receipts at Savannah, Jacksonville and Pensacola are taken from the NAVAL STORES REVIEW AND JOURNAL OF TRADE, DAILY MARKET REPORTS OF THE SAVANNAH EXCHANGE, JACKSONVILLE AND PENSACOLA CHAMBERS OF COMMERCE. Economic Analysis Unit, General Crops Section, Agricultural Adjustment Administration.

TABLE 14 - WEIGHTED AVERAGE MONTHLY AND SEASON PRICES OF GUM ROSIN (280 lb. Bbls.) - 1921-22 to 1939-40¹
(Based upon Wednesdays and Saturdays closing Savannah Prices)²

Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
<u>In dollars per barrel of 280 pounds gross weight</u>													
1921-22	4.00	4.42	3.87	3.78	4.00	4.39	4.34	4.42	4.47	4.21	4.22	4.10	4.20
1922-23	4.35	4.79	5.09	5.23	5.25	5.52	5.75	5.48	5.14	5.07	5.15	5.17	5.20
1923-24	4.96	4.88	4.82	4.78	4.66	4.62	4.57	4.44	4.80	4.88	4.69	4.74	4.67
1924-25	4.81	4.88	4.72	4.71	4.94	5.20	5.99	6.46	6.49	7.19	7.28	7.24	5.61
1925-26	7.52	9.01	8.78	9.15	10.22	13.02	14.33	14.22	13.05	12.09	13.34	12.66	11.11
1926-27	11.66	10.42	12.18	13.09	12.53	13.92	12.32	11.64	11.64	11.98	11.98	10.42	12.20
1927-28	9.77	9.11	8.46	8.32	8.96	8.47	7.64	6.87	7.64	8.61	8.38	8.58	8.35
1928-29	8.31	7.68	8.24	8.53	8.32	8.06	8.20	8.53	8.57	8.57	8.36	8.08	8.29
1929-30	7.50	7.39	7.31	7.49	7.44	7.87	8.16	7.62	7.34	7.48	7.45	7.22	7.54
1930-31	6.85	6.16	5.65	4.78	4.42	4.77	4.37	4.45	4.46	4.30	4.52	4.95	5.02
1931-32	4.96	5.01	5.26	3.95	3.12	3.04	2.95	3.27	3.10	3.10	3.18	3.67	3.89
1932-33	2.98	2.91	2.74	2.54	2.32	3.23	3.07	2.94	2.92	2.98	2.90	2.90	2.83
1933-34	2.95	3.54	3.53	4.09	3.83	3.91	3.86	3.92	3.90	4.24	5.04	5.06	3.88
1934-35	5.09	4.87	4.55	4.30	4.37	4.43	4.52	4.45	4.48	4.73	4.86	4.79	4.55
1935-36	4.67	4.72	4.58	4.44	4.12	4.38	4.81	4.71	4.55	4.60	4.57	4.60	4.54
1936-37	4.38	4.32	4.70	5.42	6.68	6.00	6.23	7.26	9.28	10.20	9.76	8.97	6.42
1937-38	8.07	8.30	8.15	8.00	7.98	8.03	7.35	6.21	5.55	5.92	5.38	4.73	7.35
1938-39	4.87	4.67	4.81	5.15	4.98	4.72	5.28	5.64	5.09	5.12	5.29	5.79	5.02
1939-40	5.22	5.19	5.34	5.49	5.34	5.66	5.73	5.54	5.39	5.54	5.51	5.59	5.44

Note: Rosin Grades included in average prices follow -- X, WW, WG, N, M, K, I, H, G, F, E, D, B.

¹ The monthly prices were obtained by multiplying the average of the Wednesday and Saturday prices of each grade by the number of barrels of each grade reported as inspected in Florida during that month, and dividing the total of the resulting figures by the total number of barrels inspected in Florida during that month, thereby giving the proper relative value to each grade. The season average price was obtained by multiplying each monthly price by the combined reported receipts during that month at Savannah, Jacksonville and Pensacola and dividing the total of these figures for the season by the total receipts for the season, thereby giving the months of heavy receipts and of low receipts their proper relative value.

² Wednesdays and Fridays closing Savannah prices used for December, January and February for 1936-37 and 1937-38 Fridays prices used for 1938-39 and 1939-40 when there was no quoted Saturday market.

Sources of data: Prices, Florida inspections and monthly receipts at Savannah, Jacksonville and Pensacola are taken from the NAVAL STORES REVIEW AND JOURNAL OF TRADE, DAILY MARKET REPORTS OF THE SAVANNAH EXCHANGE, JACKSONVILLE AND PENSACOLA CHAMBERS OF COMMERCE. Economic Analysis Unit, General Crops Section, Agricultural Adjustment Administration.

TABLE 15 - TURPENTINE CUPS SOLD FOR SEASONS 1923-24 to 1940-41

A compilation of information furnished by the manufacturers of turpentine cups shows that a total of 7,567,659 cups was sold last winter and this spring for use in gathering the 1940-41 crop of naval stores.

Sales of new cups for the past 18 seasons were reported as follows:

1940-41	7,567,659	1931-32	1,085,000
1939-40	1,638,300	1930-31	11,178,800
1938-39	10,525,180	1929-30	24,488,760
1937-38	17,204,900	1928-29	12,589,000
1936-37	17,530,000	1927-28	32,310,000
1935-36	6,219,240	1926-27	20,500,000
1934-35	11,707,839	1925-26	10,059,000
1933-34	11,088,333	1924-25	13,249,000
1932-33	3,620,000	1923-24	24,828,500

ADDENDA

Additional information pertaining to naval stores may be obtained as follows:

For monthly, quarterly and annual reports on imports and exports of turpentine and rosin, address: Chemical Division, Bureau of Foreign and Domestic Commerce, Department of Commerce, Washington, D. C. Price ten cents per copy.

For biennial census of the production of turpentine and rosin, address: Bureau of the Census, Department of Commerce, Washington, D. C.

For information on the southern forest survey showing turpentine timber resources, address: Southern Forest Experiment Station, 333 St. Charles Street, New Orleans, La.

For information regarding the production, distribution, consumption and stocks of turpentine and rosin, address: Bureau of Agricultural Chemistry and Engineering, Department of Agriculture, Washington, D. C.

